



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460

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DATA MATRIX

Date: September 25, 2018	EPA Reg. No./ File Symbol: 87427-4	Page 1 of 28
Applicant's/Registrant's Name and Address: AXSS Technical Holdings, LLC 111 Martin Road Fulton, MS 38843	Product: Bifenthrin Technical	
Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	50658401	AXSS Technical Holdings, LLC	OWN	
		50636401	AXSS Technical Holdings, LLC	OWN	
		50119501	AXSS Technical Holdings, LLC	OWN	
		48490701	AXSS Technical Holdings, LLC	OWN	
		46937801	AXSS Technical Holdings, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	50658401	AXSS Technical Holdings, LLC	OWN	
		50636401	AXSS Technical Holdings, LLC	OWN	
		50119501	AXSS Technical Holdings, LLC	OWN	
		48490701	AXSS Technical Holdings, LLC	OWN	
		46937801	AXSS Technical Holdings, LLC	OWN	
830.1620	Description of Production Process	50658401	AXSS Technical Holdings, LLC	OWN	
		50636401	AXSS Technical Holdings, LLC	OWN	
		50119501	AXSS Technical Holdings, LLC	OWN	
		48490701	AXSS Technical Holdings, LLC	OWN	
		46937801	AXSS Technical Holdings, LLC	OWN	
830.1650	Description of Formulation Process				Not required ¹

Signature

Name and Title

Ann M. Tillman, Consultant

Date

Sept. 25, 2018



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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1670	Discussion of Formation of Impurities	50658401	AXSS Technical Holdings, LLC	OWN	
		50636401	AXSS Technical Holdings, LLC	OWN	
		50119501	AXSS Technical Holdings, LLC	OWN	
		48490701	AXSS Technical Holdings, LLC	OWN	
		46937801	AXSS Technical Holdings, LLC	OWN	
830.1700	Preliminary Analysis	50685402	AXSS Technical Holdings, LLC	OWN	
		50636402	AXSS Technical Holdings, LLC	OWN	
		50119502	AXSS Technical Holdings, LLC	OWN	
		48490702	AXSS Technical Holdings, LLC	OWN	
		46937802	AXSS Technical Holdings, LLC	OWN	
830.1750	Certified Limits	50658401	AXSS Technical Holdings, LLC	OWN	
		50636401	AXSS Technical Holdings, LLC	OWN	
		50119501	AXSS Technical Holdings, LLC	OWN	
		48490701	AXSS Technical Holdings, LLC	OWN	
		46937801	AXSS Technical Holdings, LLC	OWN	
830.1800	Enforcement Analytical Method	50685402	AXSS Technical Holdings, LLC	OWN	
		50636402	AXSS Technical Holdings, LLC	OWN	
		50119502	AXSS Technical Holdings, LLC	OWN	
		48490702	AXSS Technical Holdings, LLC	OWN	
		46937802	AXSS Technical Holdings, LLC	OWN	

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302	Color	46937802	AXSS Technical Holdings, LLC	OWN	
830.6303	Physical State	46937802	AXSS Technical Holdings, LLC	OWN	
830.6304	Odor	46937802	AXSS Technical Holdings, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	46937802	AXSS Technical Holdings, LLC	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	46937802	AXSS Technical Holdings, LLC	OWN	
830.6315	Flammability	46937802	AXSS Technical Holdings, LLC	OWN	
830.6316	Explosibility				See endnote ²
830.6317	Storage Stability	50304401	AXSS Technical Holdings, LLC	OWN	
830.6319	Miscibility				Not required ³
830.6320	Corrosion Characteristics	50304401	AXSS Technical Holdings, LLC	OWN	
830.6321	Dielectric Breakdown Voltage				Not required ⁴
830.7000	pH	46937802	AXSS Technical Holdings, LLC	OWN	
830.7050	UV/Visible Absorption	46937802	AXSS Technical Holdings, LLC	OWN	
830.7100	Viscosity				Not required ⁵
830.7200	Melting Point/Melting Range	46937802	AXSS Technical Holdings, LLC	OWN	
830.7220	Boiling Point/Boiling Range				Not required ⁶
830.7300	Density/Relative Density/Bulk Density	46937802	AXSS Technical Holdings, LLC	OWN	
830.7370	Dissociation Constants in Water				Not required ⁷
830.7520	Particle size, fiber length, diameter distribution				Waiver ⁸

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Form Approved OMB No. 2070-0060

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	46937802	AXSS Technical Holdings, LLC	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	46937802	AXSS Technical Holdings, LLC	OWN	
830.7860	Water Solubility, Generator Column Method				See 830.7840
830.7950	Vapor Pressure				See endnote ⁹
870.1100 (81-1)	Acute Oral Toxicity: Rat	00132519		OLD	
870.1200 (81-2)	Acute Dermal Toxicity: Rat	00132520		OLD	
870.1300 (81-3)	Acute Inhalation Toxicity: Rat	46008101 49108901 49153401	FMC Corporation FMC Corporation FMC Corporation	PER PAY PAY	
870.2400 (81-4)	Primary Eye Irritation: Rabbit	00132522		OLD	
870.2500 (81-5)	Primary Dermal Irritation	00132521		OLD	
870.2600 (81-6)	Dermal Sensitization	45924801	FMC Corporation	PER	

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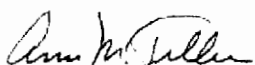
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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Generic Data Requirements					
850.2100	Acute Avian Oral Toxicity	00132532 (AC251727) 00132534 (AC251727) 49163801	Bifenthrin Task Force	OLD OLD OWN	See endnote ¹⁰
850.2200	Acute Avian Dietary Toxicity	00132533 (AC251727) 00132535 (AC251727)		OLD OLD	See endnote ¹¹
850.2400	Wild Mammal Toxicity				Not required; see 870 series
850.2300	Avian Reproductive Toxicity	00163097 (AC264644) 00163098 (AC264644) 00163099 (AC264645) 00163100 (AC264645)		OLD OLD OLD OLD	See endnote ¹²
850.2500	Simulated or Actual Field Testing				Not required ¹³

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1075	Freshwater Fish Toxicity	00163156 (AC251727) 00132536 (AC251727)		OLD OLD	See endnote ¹⁴
850.1010	Freshwater Invertebrate Toxicity	00132537 41156501 49552201	Pyrethroid Working Group	OLD OLD PAY	See endnote ¹⁵
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	00163101 (AC264646) 00163102 (AC264647) 49060102 00163103 40383501	Bifenthrin Task Force	OLD OLD OWN OLD OLD	See endnote ¹⁶
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	41156501		OLD	See endnote ¹⁷
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	49412102	Bifenthrin Task Force	OWN	See endnote ¹⁸
850.1400	Fish Early Life Stage (Freshwater)	49412101	Bifenthrin Task Force	OWN	See endnote ¹⁹
850.1400	Fish Early Life Stage (Saltwater)	49412101	Bifenthrin Task Force	OWN	See endnote ²⁰
850.1500	Life Cycle Fish	49412101	Bifenthrin Task Force	OWN	See endnote ²¹

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	00163094 00163095 42529902		OLD OLD OLD	See endnote ²²
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required ²³
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required ²⁴
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required ²⁵
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine	49277501 49277502 49692801	Bifenthrin Task Force Bifenthrin Task Force Bifenthrin Task Force	OWN OWN OWN	See endnote ²⁶
850.3020	Honey Bee Acute Contact Toxicity	00132538		OLD	See endnote ²⁷
850.3030	Honeybee Toxicity of Residues on Foliage	00163104		OLD	See endnote ²⁸
850.3040	Field Testing for Pollinators				Not required
870.6100	Delayed Neurotoxicity (Acute) – Hen	00141193		OLD	
870.6200	Acute Neurotoxicity – Rat	44862102		OLD	See endnote ²⁹
870.3100	90-Day Oral: Rodent	00141199		OLD	See endnote ³⁰
870.3150	90-Day Oral: Non-Rodent	00141200		OLD	See endnote ³¹
870.3200	21/28-Day Dermal Toxicity	45280501		OLD	See endnote ³²
870.3250	90-Day Dermal Toxicity	48807401	Bifenthrin Task Force	OWN	Waiver

Signature

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3465	90-Day Inhalation Toxicity				Not required
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	44862103		OLD	See endnote ³³
870.4100	Chronic Oral Rodent	00157226		OLD	See endnote ³⁴
870.4200	Carcinogenicity	00157226 00157227		OLD OLD	See endnote ³⁵
870.3700	Reproduction/Developmental Toxicity Screening Test	00145997 45352301		OLD OLD	See endnote ³⁶
870.3800	2-Generation Reproduction: Rat	00157225		OLD	See endnote ³⁷
870.6300	Developmental Neurotoxicity Study	46750501	FMC Corporation	PER	See endnote ³⁸
870.5100	Bacterial Reverse Mutation Test	00132524 40383601		OLD OLD	
870.5300, 830.5375	In vitro Mammalian Cell Assay	00141195 00141197 40383603		OLD OLD OLD	
870.5385, 870.5395, 870.5450, 870.5550	In vivo Cytogenetics and Other Effects	00138111 00141194 40383602 40630001		OLD OLD OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7485	Metabolism and Pharmacokinetics	00163068 40415101 40415102		OLD OLD OLD	
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	00163072 41284202 41290102 41917502 41917503		OLD OLD OLD OLD OLD	
870.7800	Immunotoxicity	49108801	Bifenthrin Task Force	OWN	Waived
875.1100	Dermal Exposure – Outdoor		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1700	Product Use Information		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	42142201 44684401 44955201		OLD OLD OLD	
875.2200	Soil Residue Dissipation		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2300	Indoor Surface Residue Dissipation				Not required
875.2400	Dermal Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2500	Inhalation Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2600	Biological Monitoring		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2700	Product Use Information				Not required
875.2800	Descriptions of Human Activity		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2900	Data Reporting and Calculations		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.3000	Nondietary Ingestion Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
201-1	Droplet Size Spectrum		Spray Drift Task Force	OWN	See endnote ⁴¹
202-1	Droplet Size Spectrum		Spray Drift Task Force	OWN	See endnote ⁴¹
890.1100	Amphibian Metamorphosis	48675901	Bifenthrin Task Force	OWN	See endnote ⁴²
890.1150	Androgen Receptor Binding (Rat Prostate)	48615001	Bifenthrin Task Force	OWN	See endnote ⁴³
890.1200	Aromatase (Human Recombinant)	48615002	Bifenthrin Task Force	OWN	See endnote ⁴⁴
890.1250	Estrogen Receptor Binding	48615003	Bifenthrin Task Force	OWN	See endnote ⁴⁵
890.1300	Estrogen Receptor Transcriptional Activation Assay	48615004	Bifenthrin Task Force	OWN	See endnote ⁴⁶
890.1350	Fish Short-Term Reproduction	48675902	Bifenthrin Task Force	OWN	See endnote ⁴⁷
890.1400	Hershberger (Rat)	48615005	Bifenthrin Task Force	OWN	See endnote ⁴⁸
890.1450	Female Pubertal (Rat)	48669401	Bifenthrin Task Force	OWN	See endnote ⁴⁹
890.1500	Male Pubertal (Rat)	48669401	Bifenthrin Task Force	OWN	See endnote ⁵⁰
890.1550	Steroidogenesis	48615006	Bifenthrin Task Force	OWN	See endnote ⁵¹
890.1600	Uterotrophic (Rat)	48615007	Bifenthrin Task Force	OWN	See endnote ⁵²
850.4100	Tier 1: Seedling Emergence	49138401	Bifenthrin Task Force	OWN	
850.4150	Tier 1: Vegetative Vigor	49138402	Bifenthrin Task Force	OWN	

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.5400	Tier 1: Aquatic Plant Growth	49134901	Bifenthrin Task Force	OWN	
		49060101	Bifenthrin Task Force	OWN	
		49098201	Bifenthrin Task Force	OWN	
		49098202	Bifenthrin Task Force	OWN	
		49116101	Bifenthrin Task Force	OWN	
850.4100	Tier 2: Seedling Emergence	49138401	Bifenthrin Task Force	OWN	
850.4150	Tier 2: Vegetative Vigor	49138402	Bifenthrin Task Force	OWN	
850.4400, 850.5400	Tier 2: Aquatic Plant Growth	49134901	Bifenthrin Task Force	OWN	
		49060101	Bifenthrin Task Force	OWN	
		49098201	Bifenthrin Task Force	OWN	
		49098202	Bifenthrin Task Force	OWN	
		49116101	Bifenthrin Task Force	OWN	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	00132539		OLD	See endnote ⁵³
		49138403	Bifenthrin Task Force	OWN	
835.2240	Photodegradation in Water	00163084		OLD	See endnote ⁵⁴
		48882501	FMC Corporation	PAY	

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2410	Photodegradation in Soil	00163085		OLD	See endnote ⁵⁵
835.2370	Photodegradation in Air				Reserved ⁵⁶
835.4100	Aerobic Soil Metabolism	00152266 (AC073174) AC073225 AC141502 00132540 (AC251278) AC254401 00141202 (AC254411) 00163086 (AC264642) AC532540 48882502	FMC Corporation	OLD OLD OLD OLD OLD OLD OLD OLD OLD PAY	See endnote ⁵⁷
835.4200	Anaerobic Soil Metabolism	00163088 48882503	FMC Corporation	OLD PAY	See endnote ⁵⁸
835.4300	Aerobic Aquatic Metabolism	48882504	FMC Corporation	PAY	See endnote ⁵⁹
835.4400	Anaerobic Aquatic Metabolism	49364001	Bifenthrin Task Force	OWN	See endnote ⁶⁰

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.1230	Leaching/Adsorption/Desorption	00141203 49175401 00132541	Bifenthrin Task Force	OLD OWN OLD	
835.1410	Volatility – Laboratory	41220601		OLD	See endnote ⁶¹
835.8100	Volatility – Field				Reserved ⁶²
835.6100	Soil Field Dissipation Study	00163091 42339203 42339201 41673103 41673101 41671302		OLD OLD OLD OLD OLD OLD OLD	See endnote ⁶³

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6200	Aquatic Sediment Field Dissipation Study	40981803 40981805 40981808 40981812 40981814 40981815 40981816 40981817 40981818 40981819		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	See endnote ⁶⁴
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Reserved ⁶⁵
850.6100	Environmental Chemistry Methods	49024201 49168201 49189001	Bifenthrin Task Force Bifenthrin Task Force Bifenthrin Task Force	OWN OWN OWN	
SS-1099	Leachability from Treated Wood	47454101 47454102	FMC Corporation FMC Corporation	PAY PAY	See endnote ⁶⁶
SS-1065	POTW Treatability Study	48762906	Pyrethroid Working Group	PAY	See endnote ⁶⁷

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	00163075 40257901 40257902 45794201	IR-4	OLD OLD OLD PL	
860.1300	Nature of the Residue: Livestock	00163076 00163078 40384402 40384403 40384404 40384405		OLD OLD OLD OLD OLD OLD	
860.1850	Confined Rotational Crops	00163093 42039601		OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Methods	00151439		OLD	
		00151440		OLD	
		40257903		OLD	
		40257904		OLD	
		40257905		OLD	
		40257906		OLD	
		40981811		OLD	
		41492605		OLD	
		41492608		OLD	
		41858105		OLD	
		42339202		OLD	
		42357104		OLD	
		42357105		OLD	
		42515601		OLD	
		42733401		OLD	
		43641801		OLD	
		43801901		OLD	
		43801902		OLD	
		44165201		OLD	
		44455501		OLD	
		44455502		OLD	
		45377301		OLD	
		45350910		OLD	
		45377301		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1360	Multiresidue Method	40257907		OLD	
		42357101		OLD	
		42368601		OLD	
860.1380	Storage Stability	00163080		OLD	
		00163081		OLD	
		42357102		OLD	
		41858106		OLD	
		41858109		OLD	
		41858112		OLD	
		42357103		OLD	
		45350911		OLD	
		41858109		OLD	
		41894601		OLD	
		45350911		OLD	
860.1500	Magnitude of the Residue in Plants: artichoke	43844201	Bifenthrin Task Force	OLD	
		49180801		OWN	
860.1500	Magnitude of the Residue in Plants: bananas	45221102		OLD	
		45221103		OLD	
		45259601		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Brassica vegetables	44756301	IR-4	OLD	
		44756302		OLD	
		44756303		OLD	
		45660301		PL	
860.1500	Magnitude of the Residue in Plants: bushberries	47144501	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: caneberries	44875101	Bifenthrin Task Force	OLD	
		49314301		OWN	
860.1500	Magnitude of the Residue in Plants: canola/rapeseed	44774301		OLD	
		44774302		OLD	
860.1500	Magnitude of the Residue in Plants: citrus fruits	45350902		OLD	
		45350903		OLD	
		45350904		OLD	
		45350905		OLD	
		45350906		OLD	
		45350907		OLD	
		45350908		OLD	
		45350909		OLD	

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: corn	40257908	FMC Corporation	OLD	
		40257909		OLD	
		41858101		OLD	
		41858103		OLD	
		41858108		OLD	
		41894602		OLD	
		41894603		OLD	
		44620601		OLD	
		44620602		OLD	
		44805701		OLD	
860.1500	Magnitude of the Residue in Plants: cotton	45943401	Bifenthrin Task Force	PER	
		00163079		OLD	
		40981810		OLD	
860.1500	Magnitude of the Residue in Plants: cucurbit vegetables	49241401		OWN	
		44056501		OLD	
		44056502		OLD	
860.1500	Magnitude of the Residue in Plants: cucurbit vegetables	44056503		OLD	
				OLD	

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: fruiting vegetables	44616901		OLD	
		44870501		OLD	
		44870502		OLD	
		45440401		OLD	
		45605601		OLD	
860.1500	Magnitude of the Residue in Plants: grapes	44859801	Bifenthrin Task Force	OLD	
		45383101		OLD	
		45383102		OLD	
		49180802		OWN	
860.1500	Magnitude of the Residue in Plants: herbs	45104101	IR-4 Bifenthrin Task Force	OLD	
		45104102		OLD	
		46279701		PL	
		49341301		OWN	
860.1500	Magnitude of the Residue in Plants: hops	41658501	Bifenthrin Task Force	OLD	
		41658601		OLD	
		49167001		OWN	

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Ingredient: Bifenthrin (CAS No. 82657-04-3)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: leafy vegetables	43844101		OLD	
		44869601		OLD	
		45286701		OLD	
		45579801		OLD	
		45579802		OLD	
		47144502	IR-4	PL	
		47144503	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: legume vegetables, including soybeans	48499801	IR-4	PL	
		44581101		OLD	
		44581102		OLD	
		44746801		OLD	
		45567404		OLD	
		45624701		OLD	
860.1500	Magnitude of the Residue in Plants: peanuts	46098701	IR-4	PL	
		46960401	IR-4	PL	
		46960402	IR-4	PL	
		46960403	IR-4	PL	
		46960404	IR-4	PL	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: pears	00163905 41492606 45377302 45377303 45377304 46857901	IR-4	OLD OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: root and tuber vegetables crop subgroup, except sugar beet, including leaves of root and tuber vegetables	45794202 46961102 46961103	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: strawberry	41492607 42515602		OLD OLD	
860.1500	Magnitude of the Residue in Plants: tobacco	46045001	FMC Corporation	PER	
860.1500	Magnitude of the Residue in Plants: tree nuts	00162835 00162836 41492603 41492604 42441301 42515603 45377305		OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: mayhaw	46960801	IR-4	PL	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: canola	44774301 44774302		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus fruits	45350902 45350903 45350904 45350905 45350906 45350907 45350908 45350909		OLD OLD OLD OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	41858104 41894604		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	00163079 40981810 49241401	Bifenthrin Task Force	OLD OLD OWN	
860.1520	Magnitude of the Residue in Processed Food or Feed: fruiting vegetables	45440401 45605601		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: grapes	45383101 45383102		OLD OLD	

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AXSS Technical Holdings, LLC
111 Martin Road
Fulton, MS 38843

Product:

Bifenthrin Technical

Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: peanuts	46960401	IR-4	PL	
		46960402	IR-4	PL	
		46960403	IR-4	PL	
		46960404	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: root and tuber vegetables, except sugar beet	45794202	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	46098701	IR-4	PL	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	00163077		OLD	
		40257910		OLD	
		40257911		OLD	
		40257912		OLD	
		40384401		OLD	
		41858102		OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments	45501801		OLD	
860.1900	Field Rotational Crops	45306501		OLD	

Signature

Name and Title

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Endnotes for Data Matrix for Bifenthrin Technical

-
- ¹ **830.1650** – Per OPPTS 830.1000, these data are not required for the registration of a technical product. See 830.1620 for production information.
- ² **830.6316 – Explodability:** Not applicable. Product is not potentially explosive.
- ³ **830.6319 – Miscibility:** Not applicable. Product is not intended for dilution with petroleum solvents.
- ⁴ **830.6321 – Dielectric Breakdown Voltage:** Not applicable. Product is not intended for use around electrical equipment.
- ⁵ **830.7100 – Viscosity:** Not required because product is a solid.
- ⁶ **830.7220 – Boiling Point:** Not required for solids.
- ⁷ **830.7370 – Dissociation Constant:** Not required. The product does not dissociate.
- ⁸ **830.7520 – Particle size, fiber length, diameter distribution:** Not required because product is not insoluble or a fibrous material.
- ⁹ **830.7950 – Vapor Pressure:** Published literature indicates that the vapor pressure is below any of the guideline test methods. Therefore, it is not possible to determine an accurate reading.
- ¹⁰ **850.2100** – MRID numbers 00132532 and 00132534 are acceptable and partially satisfy the data requirement as per the Dec. 22, 2010 Revised EFED Registration Review Problem Formulation for Bifenthrin (DP Barcode D384352) (Problem Formulation), but that passerine data are required. Passerine data were submitted under MRID 49163801 by the Bifenthrin Task Force (BTF). AXSS Technical Holdings, LLC (AXSS) is a member in good standing with the BTF.
- ¹¹ **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹² **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation. Note: it appears that the mallard study was incorrectly referenced as AC264644; the correct study is cited.
- ¹³ **850.2500** – These data were not required as per the Problem Formulation.
- ¹⁴ **850.1075** – The studies cited are acceptable or supplemental and satisfy the data requirement as per the Problem Formulation and Sept. 30, 2016 Preliminary Comparative Environmental Fate and Ecological Risk Assessment for the Registration Review of Eight Synthetic Pyrethroids and the Pyrethrins (DP Barcode D425791, D429461, D433338, D433339, and D435888) (EFED Risk Assessment).
- ¹⁵ **850.1010** – The studies cited are acceptable and satisfy the data requirement as per the EFED Risk Assessment.
- ¹⁶ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable or supplemental and satisfy the data requirement as per the Problem Formulation and EFED Risk Assessment.
- ¹⁷ **850.1300** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation and EFED Risk Assessment.
- ¹⁸ **850.1350** – The study cited is supplemental, but appears to satisfy the data requirement as per the EFED Risk Assessment.
- ¹⁹ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment. The Registration Review DCI allows for citation of a saltwater study to satisfy this requirement.
- ²⁰ **850.1400** – The study cited is supplemental, but appears to satisfy the data requirement as per the EFED Risk Assessment. Note: the Registration Review DCI allowed for a life cycle study be submitted to satisfy both an early life stage and a life cycle data requirement.

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- ²¹ **850.1500** – The study cited is supplemental, but appears to satisfy the data requirement as per the EFED Risk Assessment.
- ²² **850.1710, 850.1730, 850.1850** – The studies cited are supplemental but satisfy the data requirement as per the Problem Formulation and EFED Risk Assessment.
- ²³ **850.1950** – These data were not required as per the Problem Formulation.
- ²⁴ **850.1735** – These data were not required as per the Problem Formulation.
- ²⁵ **850.1740** – These data were not required as per the Problem Formulation.
- ²⁶ **N/A** – MRID Numbers 49277501 and 49277502 are acceptable and satisfy the freshwater data requirement as per the EFED Risk Assessment. MRID 49692801 was recently submitted to satisfy estuarine data requirement and does not yet appear to have been reviewed.
- ²⁷ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁸ **850.3030** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁹ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the May 17, 2011 Toxicology Data Needs Update: Bifenthrin Human Health Assessment Scoping Document in Support of Registration Review (DP Barcode D389066) (Scoping Document).
- ³⁰ **870.3100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³¹ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³² **870.3200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³³ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁴ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁵ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ³⁶ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ³⁷ **870.3800** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁸ **870.6300** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁹ **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – AXSS Technical Holdings, LLC is an affiliate member of the Agricultural Handlers Exposure Task Force (AHETF). A letter of authorization for reliance on AHETF data can be provided upon request.
- ⁴⁰ **875.2200, 875.2400, 875.2500, 875.2600, 875.2800, 875.2900, 875.3000** – AXSS Technical Holdings, LLC is an affiliate member of Agricultural Re-Entry Task Force (ARTF) and Outdoor Residential Exposure Task Force (ORETF). A letter of authorization for reliance on ARTF and ORETF data can be provided upon request.
- ⁴¹ **201-1, 202-1** – AXSS Technical Holdings, LLC is an affiliate member of the Spray Drift Task Force (SDTF). A letter of authorization for reliance on SDTF data can be provided upon request.

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- ⁴² **890.1100** – The study cited is acceptable and satisfies the data requirements as per the June 29, 2015 Bifenthrin: Data Evaluation Records (DERs) for EDSP Tier 1 Assays (DP Barcode D398835) (EDSP DERs).
- ⁴³ **890.1150** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁴⁴ **890.1200** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁴⁵ **890.1250** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁴⁶ **890.1300** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁴⁷ **890.1350** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁴⁸ **890.1400** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁴⁹ **890.1450** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁰ **890.1500** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵¹ **890.1550** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵² **890.1600** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵³ **835.2120** – MRID 00132539 was supplemental and additional data were required as per the Problem Formulation. MRID 49138403 was submitted in response to the Registration Review DCI and was listed in the Sept. 30, 2016 Preliminary Comparative Environmental Fate and Ecological Risk Assessment for the Registration Review of Eight Synthetic Pyrethroids and the Pyrethrins (DP Barcode D425791, D429461, D433338, D433339, and D435888) (EFED Risk Assessment).
- ⁵⁴ **835.2240** – MRID 00163084 was supplemental and additional data were required as per the Problem Formulation. MRID 48882501 was submitted in response to the EFED Risk Assessment.
- ⁵⁵ **835.2410** – The study cited was acceptable and satisfies the data requirement as per the EFED Risk Assessment.
- ⁵⁶ **835.2370** – The data requirement is reserved as per the Problem Formulation.
- ⁵⁷ **835.4100** – The studies cited were acceptable or supplemental and satisfy the data requirement as per the EFED Risk Assessment.
- ⁵⁸ **835.4200** – The studies cited were acceptable or supplemental and satisfy the data requirement as per the EFED Risk Assessment.
- ⁵⁹ **835.4300** – The study cited was supplemental and listed in the EFED Risk Assessment.
- ⁶⁰ **835.4400** – The study cited was supplemental and listed in the EFED Risk Assessment.
- ⁶¹ **835.1410** – The study cited was supplemental and listed in the EFED Risk Assessment; it was also listed in the Problem Formulation and no additional data were required.
- ⁶² **835.8100** – The data requirement is reserved as per the Problem Formulation.
- ⁶³ **835.6100** – The studies cited were acceptable and satisfy the data requirement as per the EFED Risk Assessment. Note: MRID 42334167 was not cited as it does not correspond to a study in NPIRS.
- ⁶⁴ **835.6200** – The studies cited were supplemental, but satisfy the data requirement as per the EFED Risk Assessment and Problem Formulation.
- ⁶⁵ **835.7100** – The data requirement is reserved as per the Problem Formulation.
- ⁶⁶ **SS-1099** – The studies cited were acceptable and satisfy the data requirement as per the EFED Risk Assessment and Problem Formulation.
- ⁶⁷ **SS-1065** – The study cited was acceptable, but appears to satisfy the data requirement as per the EFED Risk Assessment.